Completed

Empowering Elders Through Technology

ClinicalTrials.gov ID NCT00261664

Sponsor Robert Wood Johnson Foundation

Information provided by Robert Wood Johnson Foundation

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Study Overview

Brief Summary

Telehomecare is a technology that individuals use in their homes to communicate with health providers electronically. This technology can help them function at a higher level and avoid undesirable hospitalizations by making changes in their everyday behaviors, but research is needed to understand how telehomecare supports health behavior change and leads to improved health status.

The hypothesis being tested is that the use of an electronic method of monitoring and transmitting health information facilitates patient empowerment, with subsequent effects on the patient's ability to manage her/his treatment regimen more effectively. The study will explore the relationship between telehomecare and acquisition of knowledge, and will show whether changes in knowledge levels translate to changes in behaviors and improved health outcomes. The effects of two different telehomecare systems (nurse-directed vs. patient-directed) on knowledge, self-management, and health status will be compared. A further goal is to illuminate the attitudes of physicians regarding the use of telehomecare in the treatment of their elderly, community dwelling patients.

Results will inform managers and policymakers who are responsible for integrating eHealth mechanisms into chronic disease protocols, funding health care programs, and creating policies that support the use of information technology by all Americans.

Detailed Description

This study, funded by the Robert Wood Johnson Foundation through its Health e-Technologies Initiative (www.hetinitiative.org) is investigating the impact of telehomecare on health outcomes of persons with heart failure. The study began on September 1, 2003 and ends on February 28, 2006.

This study targets elderly persons with congestive heart failure (CHF), a major health problem affecting more than 4 million Americans. The research hypothesis being tested is that the use of an electronic method of monitoring and transmitting health information facilitates patient empowerment, with subsequent effects on the patient's ability to manage her/his treatment regimen more effectively. The study will explore the linkages between telehomecare and acquisition of knowledge, and will show whether changes in knowledge levels translate to changes in behaviors and improved health outcomes.

The effects of two different telehomecare systems (nurse-directed vs. patient-directed) on knowledge, self-management, and health status will be compared. A further goal is to illuminate the attitudes of physicians regarding the use of telehomecare in the treatment of their elderly, community dwelling patients.

Specific objectives are:

1. To evaluate the impact of telehomecare on patients' knowledge and self-management of heart failure, and cardiovascular health outcomes;
2. To compare the effect of two different telehomecare systems on patients' knowledge and self-management of heart failure, and cardiovascular health outcomes;
3. To investigate how the personal characteristics of older persons influence human-computer interaction and user satisfaction;
4. To describe and predict the attitudes and intentions of physicians regarding the use of telehomecare applications; and,
5. To analyze relationships among individual characteristics, information use, self-management of heart-failure and health status.

Official Title

Empowering Elders Through Technology

Conditions

Congestive Heart Failure

Congestive Heart Failure

Congestive Heart Failure

Congestive Heart Failure

Intervention / Treatment

- Device: telehomecare

Other Study ID Numbers

- 49150

Study Start

2003-09

Primary Completion

Study Completion (Actual)

2005-07

Enrollment

290

Study Type

Interventional

Phase

Phase 1Phase 2

This study has 1 location

United States

Pennsylvania Locations

University Park, Pennsylvania, United States, 16802

Pennsylvania State University

Click to view interactive map

Participation Criteria

Researchers look for people who fit a certain description, called eligibility criteria. Some examples of these criteria are a person's general health condition or prior treatments.

For general information about clinical research, read Learn About Studies(https://clinicaltrials.gov/study-basics/learn-about-studies).

Eligibility Criteria

Description

Inclusion Criteria:

- clinical diagnosis of congestive heart failure
- must have telephone line in home

Exclusion Criteria:

- none

Ages Eligible for Study

(Child, Adult, Older Adult)

Sexes Eligible for Study

All

Accepts Healthy Volunteers

No

Study Plan

This section provides details of the study plan, including how the study is designed and what the study is measuring.

Expand all / Collapse all

How is the study designed?

Design Details

Primary Purpose : Treatment

Allocation : Randomized

Interventional Model : Single Group Assignment

Masking : Single

Arms and Interventions

Intervention/Treatment

Intervention/Treatment

Device: telehomecare

What is the study measuring?

Primary Outcome Measures

Outcome Measure	Measure Description	Time Frame
Self-management of heart failure		

Collaborators and Investigators

This is where you will find people and organizations involved with this study.

Sponsor

Robert Wood Johnson Foundation

Collaborators

- University of Pennsylvania

Investigators

- Principal Investigator:Kathryn Dansky,Penn State University
- Co-Investigator: Daniel Lorence,Penn State University
- Co-Investigator: Karl McCleary,Penn State University

Study Record Dates

These dates track the progress of study record and summary results submissions to ClinicalTrials.gov. Study records and reported results are reviewed by the National Library of Medicine (NLM) to make sure they meet specific quality control standards before being posted on the public website.

Study Registration Dates

First Submitted

2005-12-02

First Submitted that Met QC Criteria

2005-12-02

First Posted (Estimated)

2005-12-05

Study Record Updates

Last Update Submitted that met QC Criteria

2011-07-25

Last Update Posted (Estimated)

2011-07-27

Last Verified

2011-07

More Information

Record History

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Terms related to this study

Additional Relevant MeSH Terms

Heart Diseases

Cardiovascular Diseases

Heart Failure